IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

Applicant: Bozio et al.

Title: TRIM PANEL

Appl. No.: 10/569,225

International 08/25/2004

Filing Date:

371(c) Date: 02/23/2006

Examiner: Abraham, Amjad A.

Art Unit: 1791

Confirmation No. 9411

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents PO Box 1450

PO Box 1450

Alexandria, Virginia 22313-1450

Sir:

I. Ronald A. Bozio, state and declare that:

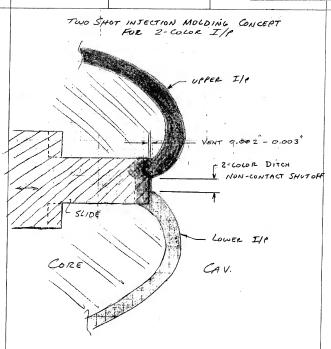
- I, along with Bart W. Fox, Daniel F. White, Michael J. Von Holtz, Jeffrey A. Cussimanio and Delwyn Kragt, am an inventor of Claims 38-62 currently pending in U.S. Patent Application No. 10/569,225 (hereinafter "the '225 application").
- The '225 application claims the benefit of priority available under 35 U.S.C. § 119(e) to U.S. Provisional Patent Application No. 60/497,629 filed on August 25, 2003 (hereinafter "the '629 application").

- I understand that in an Office Action dated December 19, 2008, Claims 38-62 of the '225
 application were rejected as being unpatentable based at least in part on U.S. Patent No.
 7,060,215 to Schoemann et al. (hereinafter "Schoemann et al.").
- I understand based on the information provided on the front page of Schoemann et al. that Schoemann et al. was filed in the United States on March 19, 2003 as a continuation-inpart of U.S. Patent Application No. 10/207,333 filed on July 29, 2002 ("the '333 application").
- I have been informed by our patent attorney Adam M. Gustafson that the subject matter
 that the Examiner has attempted to rely on Schoemann et al. for allegedly teaching in the
 Office Action dated December 19, 2008 does not appear to be disclosed in the '333
 application.
- I have also been informed by Adam M. Gustafson that Schoemann et al. has a prior art
 "effective date" of March 19, 2003 for the subject matter that the Examiner has attempted
 to rely on in the Office Action dated December 19, 2008.
- 7. Prior to March 19, 2003, we conceived in the United States at least the ideas set forth in independent Claims 38, 44 and 61 of the '225 application. Such conception is evidenced by the two sheets of drawings signed by me and dated November 20, 2001 and February 14, 2003 respectively (Exhibit A attached hereto).
- 8. Prior to March 19, 2003 and extending through the August 25, 2003 filing date of the '629 application, I, along with the other inventors and our patent attorney Scott D. Anderson, were reasonably diligent in the constructive reduction to practice the ideas set forth in Claims 38-62 of the '225 application as evidenced by the drawing sheet dated February 14, 2003, an invention disclosure form dated April 23, 2003 that has been redacted to cover attorney notes (Exhibit B attached hereto), acknowledgement by our patent attorney Scott D. Anderson that instructions were received to prepare a provisional

patent application on July 1, 2003 (Exhibit C attached hereto) and an email from our patent attorney Scott D. Anderson dated August 22, 2003 that included a first draft of the provisional patent application (Exhibit D attached hereto).

9 I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are true, and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patent application or any patent issuing therefrom.

Date: June 18, 2009 By: Ronald A. Bozio



- 1 INJECT UPPER I/P
- 3 PULL BACK SLIDE
- 3 INJECT LOWER I/P

R. Bozio 11/20/01

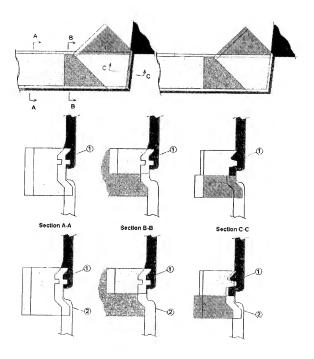




EXHIBIT B

PROPRIETARY ASG INNOVATION DISCLOSURE

ane 1 of 17

Johnson Controls Division/Subsidiary ASG - Interiors			For Office Use Only	
ocation Holland, Michigan USA			Disclosure No.	Received
isclosure Title Multi-color or m	ulti-material trim panel		4 131137	Apr. 23-03
nnovator's Full Name	Work Phone #	Citizenship	Dep	ot. #
Ronald Bozio		USA		
Bart Fox		USA		
Daniel F White		USA		
Michael VonHoltz		USA		
Jeff Cussimanio		USA		
Delwin Kragt		USA		
Briefly describe the innovation on the material, one-piece plastic trim pane		etalled description will be required	on page 2. A mu	ilti-color / multi
nnovation Benefits Does this innovation: 1. Potentially improve our products: a. Safety? c. Weight reduction?	☐ Yes Ø No Ø Yes ☐ No	b. Durability/Reliability?d. Fit & finish or buzz/squeal	⊠ Yes √rattle? ⊠ Yes	
e. Production/warranty cost redu	iction? 🛛 Yes 🔲 No			
Reduce equipment required for our property of the control of the control	or complexity in manufacturing	of our products? 🛛 Yes 🔲 No		
3. Address a consumer (end user) i	need/want like comfort, conve	nience, "surprise and delight" feat	ure, etc.? ⊠ Yes	□ No
If yes, please describe: Improve	d Craftsmanship			
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Page 2 of 17

Daniel F White Michael VonHoltz	4/21/03	Name Andy Butz		
Jeff Cussimanio	4/21/03	Date explained to me and unde	erstood by me 4/23	V03
Delwin Kragt	4/21/03		*******	
phnson Controls Division/Subsidiary ASG - Interiors		For Office Use Only		
Location Holland, Michigan USA (Tech Campus)			Disclosure No.	Received
Disclosure Title Multi-color or multi-materia	I trim panel		FY93137	Agr. 23-03



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Fully describe the innovation (explain the problem to be solved).

Background

There exists the need for an interior trim panel to be of multiple colors or of multiple materials. Typically a multi-colored trim panel or a trim panel of multiple materials is made of multiple pieces that are joined together into one assembly by methods such as ultrasonically welding, heat staking or mechanical fastening. Another way of producing a multi-colored trim panel is to mask specific regions and paint the desired color. This invention describes a multi-color / multi-material trim panel that is molded as one-piece, does not need secondary joining operations and is not masked and painted. This invention also describes how this one-piece, multi-color / multi-material panel can be assthetically desirable and create unique styling opportunities that would not normally be executed due to high cost and coro fit and finish outcomes associated with traditional methods.

The advantages for this type of tim panel include the ability to localize and strategically place the use of more premium materials that yield soft bruch, low gloss, impact resistance, UV protection or high heat performance along with the multiple colors. For example, it is desirable to have soft bruch or UV resistant additives on only the upper portion of a door panel or IP. Another advantage of this type of trim panel is the improvement of fit and finish because it is one-piece (versus mechanically joined multiple pieces) and produced in the same process.

There are many styling opportunities that can be realized with a multi-shot trim panel sketches of these by Brian Dexter are attached. The two-color color boundary can run through a neing or another component. This typically is not done with multiple-pieces because of poor fit and finish due to part and assembly variation. Isolated color break-ups that makes a feature look separate can be realized in the one-piece trim panel such as a different color molded-in speaker grille or map pocket surround. Multi-color pillar trim can be realized to allow flow-through from the interfer front to rear without having to break the trim into multiple pieces. Accents in scuff plates and other trim can be produced in the same piece. Part separation does not have to dictate color break-up location. Specific details and features can be highlighted in a different part.

Innovation

Utilizing current multi-shot molding techniques (i.e. two-shot molding, spin molding, transfer molding and over molding) a one-piece, multi-color / multi-material trum panel can be produced. The first shot of plastic material is constrained by a retractor mechanism to the desired region on the trim panel. Once that cavity is filled with plastic, the retractor is displaced by approximately the thickness of the part. The second shot (from the secondary injection unit) then fills this cavity and plastic flows to and bonds with the first material boundary. The retractor provides the shut-off for the plastic by contacting the opposite side of the mold. The surface on the retractor that actually contacts the opposite side of the mold can be perpendicular to or at an angle relative to die draw. The perpendicular retractor surface will create a square dich at the two-shot boundary. A more desirable angled dich will allow the two-shot boundary to be hidden from the occupant's sight for most in-car positions. This angled shut-off creates an apparent geometric gap that is more desired than a square, mechanical dich because it can hide the material joint. To improve the strength of the vox-shot boundary an interfocking geometry can be created to provide a mechanical lock in addition to the chemical bond that exists. Sketches of this are also included. Specific novel (deas include the part Interfocking geometries and the annels shut-off.)

Explain the solution.

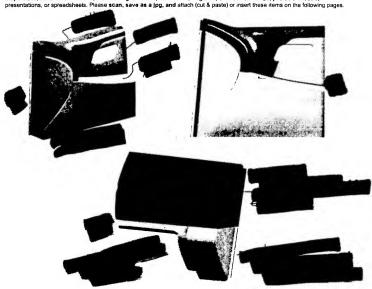
The shut-off surface on the retractor (either perpendicular to or at an angle to die draw) can withstand molding pressures and prevent injected plastic from flowing into other areas of the tool. A sketch of the molding sequence is attached with this disclosure. Sample cross sections of square and angled two-shot boundary ditches that could be applied to a timp anel are also attached.



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Signatures: Please type in the Innovator and witness names and date the entries.					
Innovators(s):	Date:	Witnesses (must be two):			
Ronald Bozio	4/21/03	Name Steve Hollingsworth			
Bart Bos	4/21/03	Date explained to me and understood by me11/21/03			
Daniel F White	4/21/03	Name Andy Butz			
Michael VonHoltz	4/21/03	Date explained to me and understood by me 4/23/03			
Jeff Cussimanio	4/21/03				
Delwin Krant	4/21/03				

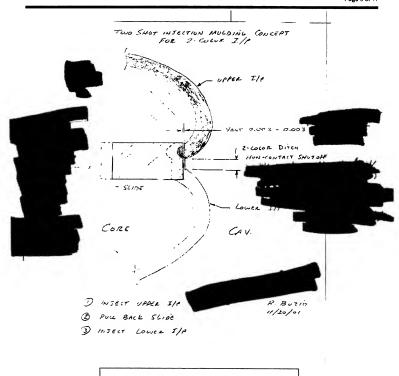
Some visual description <u>must</u> be included along with the written description. Attachments that visually describe the innovation may include, but are not limited to, the following: sketches, schematics, diagrams, CAD screen dumps, photos of models, moreentations, or spreadtheres. Please scan. save as a low, and attach (cut & paste) or insert these terms on following pages.



Examples of two-color trim panels that utilize these shut-off methods.



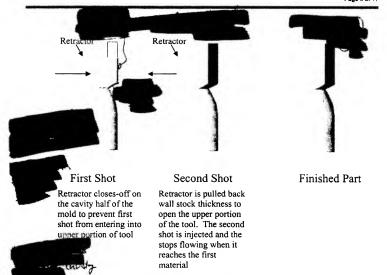
Page 5 of 17



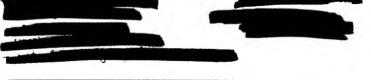
Ron Bozío's Original Concept Sketch -11/20/2001



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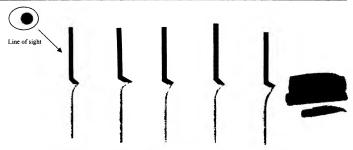


Molding Sequence

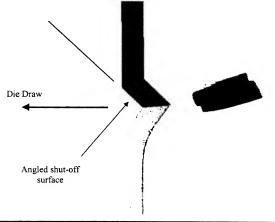




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Examples of angled shut-off geometries. These allow the color intersection to be hidden from view

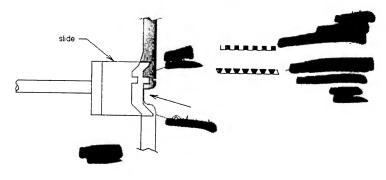




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2 color of a don molded joint concept

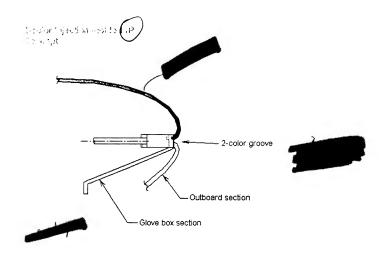


R Bozio - JCI 1/23/03

Mechanical Interlock concept



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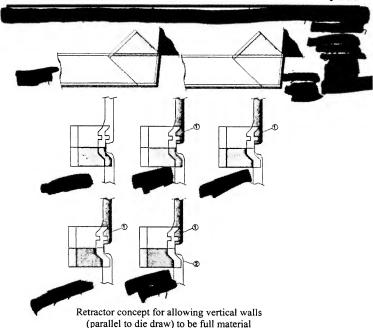


R. Bozio -JCI 1/21/03

Square Ditch Concept for IP



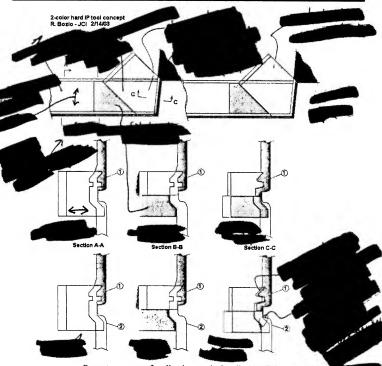
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thickness



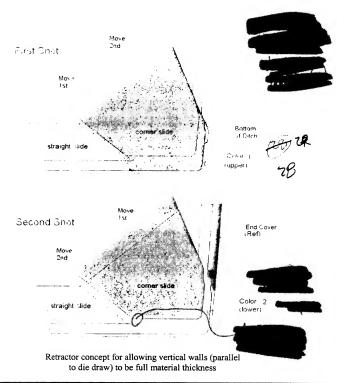
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Retractor concept for allowing vertical walls (parallel to die draw) to be full material thickness



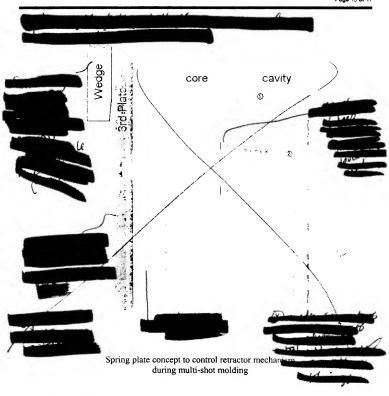
Page 12 of 17

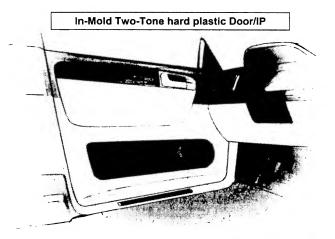


All attachments should be signed, dated, witnessed and scanned into an electronic format. Please e-mail completed forms and attachments to <u>lodi.A.Hemmeke@ici.com</u>.



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Brian Dexter 2.24.03 JCI Design

Styling Opportunities



In-Mold Two-Tone hard plastic Door/IP



Several colors in one part like two-tone door look and separately-colored sail panels. Separate parts like soft-skinned area can bridge two colors without fit



Isolated color break-ups. Molded-in speaker griller made to look separate, and map pocket surround. This would never be done with paint-masking techniques.

Brian Dexter 2.24.03 JCi Design





In-Mold Two-Tone hard plastic Door/IP

Multi-color pillar trim could allow twotone 'flow-through' from front to rear, and hide 'ugly' areas like seatbelt retractor \ peckaging.

Lower cowl trim could be two-tone to visually clean-up trim to door,



Scuff plate accents molded-in

Brian Dexter 2,24,03 JCI Design

Styling Opportunities



In-Mold Two-Tone hard plastic Door/IP

Part separation requirements don't have to dictate color break-up location, ery useful on quarter trim and B-pillar trim.

Smaller details that would / create fit or masking problems could be achieved.

Small details like cargo hooks or tiedown hook highlights molded-in.

Brian Dexter 2.24.03 JCI Design

Styling Opportunities



Anderson, Scott D.

From: Escavaille, Christine A.

Sent: Tuesday, July 08, 2003 2:54 PM

To: Anderson, Scott D.

Cc: Cooper III, John C.; Hopkins, Beverly P

Subject: RE: New JCI matter

Your number is

26032/4408

Chris Escavaille Foley & Lardner

(414) 297-5274

cescavaille@foleylaw.com

----Original Message-----

From: Anderson, Scott D.
Sent: Tuesday, July 01, 2003 2:25 PM
To: Escavaille, Christine A.

Cc: Cooper III, John C.; Hopkins, Beverly P.

Subject: New JCI matter

Chris, we had the Doors TPT meeting today.

Please open a new patent application matter for Doors FY03187 titled MULTI-COLOR OR MULTI-MATERIAL TRIM PANEL

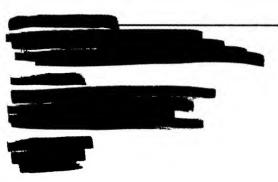
Best regards, Scott D. Anderson Foley & Lardner 777 E. Wisconsin Ave. Milwaukee, WI 53202-5306 (414) 297-5740 (direct) (414) 297-4900 (fax)

SAnderson@foleylaw.com (e-mail)

NOTE: The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this information in error, please contact the sender and delete the material from any compouter.

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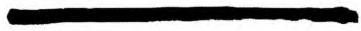




sanderson@foleyla
w.com To: Ronald. A Bozio@jci.com, Bart W.Fox@jci.com,
08/22/03 03 04 PM Jeffrey A Cussimanio@jci.com, Delwyn Kragt@jci.com
cc: Cynthia L Price@jci.com,
Michelle A Page@jci.com, BHopkins@foleylaw.com
Subject: RE: Multi-color or Multi-material Trim Panel
(FY03187)

Inventors:

Attached is the first draft. Please review at your earliest convenience and let me know if you have any comments by the end of the day



Best regards, Scott D. Anderson Foley & Lardner 777 E. Wisconsin Ave Milwaukee, WI 53202-5306 (414) 297-5740 (direct) (414) 297-4900 (fax) SAnderson@foleylaw.com (e-mail)

1